

TOURBILLONNEUR-Z:1-S0.70-MD-E2+-EZI-ALPHA-3 ·  
WHIRLING-TOOL-Z:1-S0.70-HM-E2+-EZI-ALPHA-3 ·  
GEWINDEWIRBLER



SWISS MADE

49351A-S0.70    Version 10.09.2026

E2

SUBMICRON GRAIN GRADE HIGH-SPEED MACHINING OF ABRASIVE MATERIALS

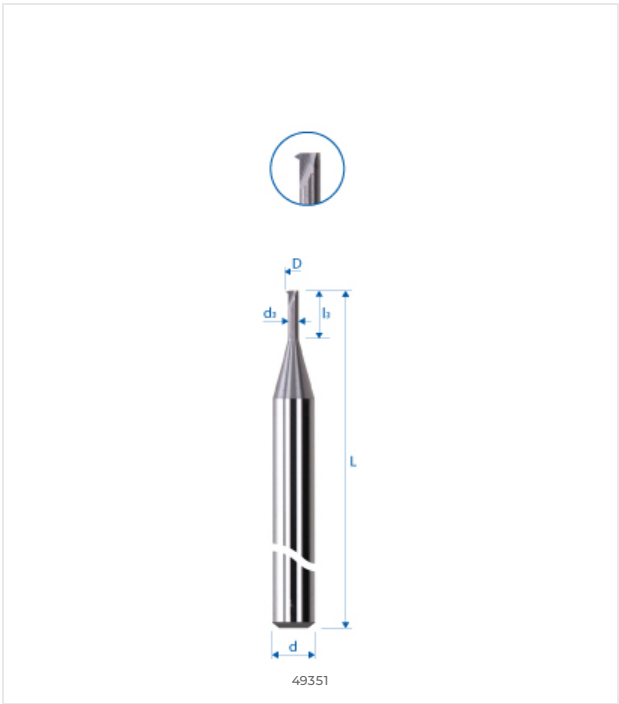
MATERIAL COMPATIBILITY

●●● Excellent (3/3)   ●●○ Good (2/3)   ●○○ Possible (1/3)   ○○○ Not recommended

Product material compatibility

| CATEGORY                       | MATERIAL                 | SPECIFICATION      | GRP | 49351A-S0.70 |
|--------------------------------|--------------------------|--------------------|-----|--------------|
| Alloyed and non-alloyed steels | Non-alloyed steels       | Rm < 450 N/mm²     | 1a  | ●●● 3/3      |
|                                |                          | Rm 450–700 N/mm²   | 1b  | ●●● 3/3      |
|                                |                          | Rm 700–900 N/mm²   | 1c  | ●●● 3/3      |
|                                |                          | Rm > 1200 N/mm²    | 1d  | ●●● 3/3      |
| Stainless steels               | Stainless steels         | Rm < 650 N/mm²     | 2a  | ●●● 3/3      |
|                                |                          | Rm 650–950 N/mm²   | 2b  | ●●● 3/3      |
|                                |                          | Rm > 950 N/mm²     | 2c  | ●●● 3/3      |
| Hardened steels                | Hardened steels          | 44–56 HRC          | 3a  | ●●○ 2/3      |
|                                |                          | 57–67 HRC          | 3b  | ●○○ 1/3      |
| Exotic materials               | Special alloys           | < 32 HRC           | 4a  | ●●○ 2/3      |
|                                |                          | > 32 HRC           | 4b  | ●●○ 2/3      |
| Graphite                       | Industrial graphite      |                    | 5   | ●●○ 2/3      |
| Cast iron                      | Grey / nodular cast iron | < 32 HRC           | 6a  | ●●○ 2/3      |
|                                |                          | > 32 HRC           | 6b  | ●●○ 2/3      |
| Titanium                       | Titanium alloys          | Rm < 600 N/mm²     | 7a  | ●●● 3/3      |
|                                |                          | 600 < Rm N/mm²     | 7b  | ●●● 3/3      |
| Nickel alloys                  | Inconel, Hastelloy       | Rm < 1000 N/mm²    | 8a  | ●●○ 2/3      |
|                                |                          | Rm > 1000 N/mm²    | 8b  | ●●○ 2/3      |
| Copper, brass, bronze          | Copper-based             | Rm < 850 N/mm²     | 9a  | ●●○ 2/3      |
|                                |                          | Rm > 850 N/mm²     | 9b  | ●●○ 2/3      |
| Aluminum                       | Aluminum alloys          | Si < 0.5%          | 10a | ●○○ 1/3      |
|                                |                          | 0.5% < Si < 5%     | 10b | ●○○ 1/3      |
|                                |                          | Si > 5%            | 10c | ●●○ 2/3      |
| Synthetic materials            | Engineering plastics     | Thermoplastic      | 11a | ●●○ 2/3      |
|                                |                          | Thermoset          | 11b | ●●○ 2/3      |
| Composite materials            | Reinforced composites    | Glass fiber / GFK  | 12a | ●●○ 2/3      |
|                                |                          | Carbon fiber / KFK | 12b | ●●○ 2/3      |
| Precious metals                | Gold, platinum, silver   | Gold               | 13a | ●●○ 2/3      |
|                                |                          | Platinum           | 13b | ●●○ 2/3      |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS |          |
|--------------------|----------|
| D (0 / -0.01)      | 0.54 mm  |
| d (h5)             | 3 mm     |
| L                  | 38 mm    |
| l1                 | 1.8 mm   |
| l3                 | –        |
| d3                 | –        |
| R                  | –        |
| e                  | 0.175 mm |
| Z                  | 1        |
| Chamfer K          | –        |
| w° collision angle | 10.1°    |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/49351A-S0.70

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